

Set	Items	Description
S1	134	AU=(WINTER C? OR WINTER, C?)
S2	3	AU=(COKER, P? OR COKER P?)
S3	14	AU=(TATESON R? OR TATESON, R?)
S4	3	S1 AND S2 AND S3
S5	8	(S1 OR S2 OR S3) AND IC=(G06F-017? OR G06F-007?)
S6	53	(S1 OR S2 OR S3) AND (MIGRAT? OR MOVE? OR MOVING OR ACTIVI- T? OR DIRECTION? OR SLIDE? OR SLIDING? OR TRANSPORT?)
S7	5	S6 AND IC=G06F?
S8	9	S4 OR S5 OR S7
S9	9	IDPAT (sorted in duplicate/non-duplicate order)
S10	4	IDPAT (primary/non-duplicate records only)

STIC Search 9/869,150

File 344:Chinese Patents Abs Aug 1985-2004/May

(c) 2004 European Patent Office

File 347:JAPIO Nov 1976-2004/Jul(Updated 041102)

(c) 2004 JPO & JAPIO

File 348:EUROPEAN PATENTS 1978-2004/Nov W03

(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20041125,UT=20041118

(c) 2004 WIPO/Univentio

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200476

(c) 2004 Thomson Derwent

10/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

016560361 **Image available**
WPI Acc No: 2004-719101/200470
XRPX Acc No: N04-570002

Item selection apparatus e.g. for holiday package, receives input
identifying item selected from displayed items, from user, and updates
score values of attribute data items associated with item identified in
user input

Patent Assignee: BRITISH TELECOM PLC (BRTE)
Inventor: BONSMAN E R; HOILE C R; SHACKLETON M A; TATESON R E
Number of Countries: 107 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
WO 200486252 A1 20041007 WO 2003GB5259 A 20031202 200470 B

Priority Applications (No Type Date): GB 20037148 A 20030327

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200486252 A1 E 34 G06F-017/30

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL
IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI
NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG
US UZ VC VN YU ZA ZM ZW

Designated States (Regional): AT BE BG BW CH CY CZ DE DK EA EE ES FI FR
GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR
TZ UG ZM ZW

Abstract (Basic): WO 200486252 A1

NOVELTY - A display unit (51) displays a set of items (511-519)
selected from a database. A receiving unit receives an input
identifying an item selected from displayed items, from a user. A
retrieval unit retrieves attribute data items associated with
identified item. An update unit updates score values of attribute items
in response to user input. Another update unit updates displayed items
based on updated score values.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the
following:

- (1) method of selecting items from product database; and
- (2) computer program product for selecting items from product
database.

USE - For selecting items such as cloth, car and holiday package
including deserted beach, wildlife, amusement park, skiing, night club,
famous landmark, etc.,.

ADVANTAGE - Allows for more versatile and rapid selection of
displayed items, by the user.

DESCRIPTION OF DRAWING(S) - The figure shows a display of the item
selection apparatus.

display unit (51)
display panels (52,53)
items (511-519)
pp; 34 DwgNo 5/5

Title Terms: ITEM; SELECT; APPARATUS; HOLIDAY; PACKAGE; RECEIVE; INPUT;
IDENTIFY; ITEM; SELECT; DISPLAY; ITEM; USER; UPDATE; SCORE; VALUE;
ATTRIBUTE; DATA; ITEM; ASSOCIATE; ITEM; IDENTIFY; USER; INPUT

Derwent Class: T01

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): G06F-017/60

File Segment: EPI

10/5/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014886811 **Image available**
WPI Acc No: 2002-707517/200276
XRPX Acc No: N02-557812

Apparatus for selecting items from database for selecting e.g. 'clip-art' images has selection device for selecting second item from amongst variant items and output device for displaying output identifying selected second item

Patent Assignee: BRITISH TELECOM PLC (BRTE); TATESON J E (TATE-I);
TATESON R E (TATE-I)

Inventor: TATESON J E; **TATESON R E**

Number of Countries: 101 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200280025	A2	20021010	WO 2002GB1107	A	20020312	200276 B
EP 1374092	A1	20040102	EP 2002703762	A	20020312	200409
			WO 2002GB1107	A	20020312	
AU 2002237445	A1	20021015	AU 2002237445	A	20020312	200432
US 20040117402	A1	20040617	WO 2002GB1107	A	20020312	200440
			US 2003471424	A	20030911	
JP 2004531808	W	20041014	JP 2002578179	A	20020312	200467
			WO 2002GB1107	A	20020312	

Priority Applications (No Type Date): EP 2001302892 A 20010328

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200280025 A2 E 36 G06F-017/30

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU
ZA ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

EP 1374092 A1 E G06F-017/30 Based on patent WO 200280025

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI TR

AU 2002237445 A1 G06F-017/30 Based on patent WO 200280025

US 20040117402 A1 G06F-017/00

JP 2004531808 W 53 G06F-017/30 Based on patent WO 200280025

Abstract (Basic): WO 200280025 A2

NOVELTY - An input device receives user input identifying a first item in a database evolution processor (16) for specifying an evolved specification having a set degree of similarity to the first item. One or more variant items meeting the evolved specification are identified from a database (13). A selection processor (17) selects a second item from amongst the variant items and output device for displaying an output identifying the selected second item.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for:

(a) a method of selecting items from a database for display

(b) a computer program product stored on a computer readable medium

USE - In data retrieval systems for assisting users making a selection from a large range of available items stored in searchable databases. In Identikit or e-fit systems for identifying criminals or missing persons, either by searching through a database of real people, or by generating a face from a witness's description. In an In-store Kiosk, for finding a desired item using a terminal in a real shop before collecting it from 'goods out'.

ADVANTAGE - Simple and computationally efficient, and can readily be extended to a multi-user situation.

DESCRIPTION OF DRAWING(S) - The drawing illustrates schematically the inter-relationship viewing the various elements that co-operate to perform the invention.

database (13)

evolution processor (16)

selection processor (17)

pp; 36 DwgNo 1/12

Title Terms: APPARATUS; SELECT; ITEM; DATABASE; SELECT; CLIP; ART; IMAGE;

SELECT; DEVICE; SELECT; SECOND; ITEM; VARIANT; ITEM; OUTPUT; DEVICE;
DISPLAY; OUTPUT; IDENTIFY; SELECT; SECOND; ITEM
Derwent Class: T01
International Patent Class (Main): G06F-017/00 ; G06F-017/30
International Patent Class (Additional): G06F-012/00
File Segment: EPI

10/5/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

013514511 **Image available**
WPI Acc No: 2000-686457/200067
XRPX Acc No: N00-507508

Information selecting method in commercial organization, involves moving
data files represented as elements from initial position towards sites
based on relevance of sort parameters to respective data files

Patent Assignee: BRITISH TELECOM PLC (BRTE)
Inventor: COKER P M ; TATESON R E ; WINTER C S
Number of Countries: 024 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200043908	A1	20000727	WO 2000GB46	A	20000107	200067 B
AU 200019914	A	20000807	AU 200019914	A	20000107	200067
EP 1153353	A1	20011114	EP 2000900249	A	20000107	200175
			WO 2000GB46	A	20000107	

Priority Applications (No Type Date): EP 99302928 A 19990415; GB 991138 A
19990119

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 200043908	A1	E 27	G06F-017/30	

Designated States (National): AU CA JP SG US

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU
MC NL PT SE

AU 200019914 A G06F-017/30 Based on patent WO 200043908

EP 1153353 A1 E G06F-017/30 Based on patent WO 200043908

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI
LU MC NL PT SE

Abstract (Basic): WO 200043908 A1

NOVELTY - The relevance of each sort statements to each data file
is determined. Data files represented as elements on a display are made
to **move** from initial position towards sites corresponding to each
sort statement based on relevance of respective sort parameters to
respective data files. Based on the position of respective element on
the display, a data file is selected.

DETAILED DESCRIPTION - The sort statement site representing a
respective sort statement is defined on a display. The elements are
made to **move** from initial position towards sites according to
relevance of respective sort parameters to respective data files and
the position of sites relative to the respective elements provides
visual indication of records being sorted. An INDEPENDENT CLAIM is also
included for information selecting system.

USE - For accessing large quantities of data stored in computer
based record system for commercial organization, telecommunication
company.

ADVANTAGE - Overcomes the problem of selection based on binary sort
statements since data files are represented according to the extent
they agree or disagree with sort statements.

DESCRIPTION OF DRAWING(S) - The figure shows the representation of
display unit displaying the user interface.

pp; 27 DwgNo 4/6

Title Terms: INFORMATION; SELECT; METHOD; COMMERCIAL; **MOVE** ; DATA; FILE;
REPRESENT; ELEMENT; INITIAL; POSITION; SITE; BASED; RELEVANT; SORT;
PARAMETER; RESPECTIVE; DATA; FILE

Derwent Class: T01

International Patent Class (Main): G06F-017/30
File Segment: EPI

10/5/4 (Item 4 from file: 349)
DIALOG(R) File 349: PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.

00769450 **Image available**

DATA PROCESSING APPARATUS

APPAREIL DE TRAITEMENT DES DONNEES

Patent Applicant/Assignee:

BRITISH TELECOMMUNICATIONS PUBLIC LIMITED COMPANY, 81 Newgate Street,
London EC1A 7AJ, GB, GB (Residence), GB (Nationality), (For all
designated states except: US)

Patent Applicant/Inventor:

MACKICHAN John Cameron, 18 Leopold Road, Felixstowe, Suffolk IP11 7NP, GB
, GB (Residence), GB (Nationality), (Designated only for: US)

WINTER Christopher Simon , Bloomfield Farm, 207 Fordham Road, Newmarket
CB8 7LG, GB, GB (Residence), GB (Nationality), (Designated only for: US
)

ROBSON Michael, Cedar Cottage, Farnham Road, Snape, Saxmundham, Suffolk
IP17 1QW, GB, GB (Residence), GB (Nationality), (Designated only for:
US)

HEATLEY David John Taylor, 17 Brandon Road, Felixstowe, Suffolk IP11 8XT,
GB, GB (Residence), GB (Nationality), (Designated only for: US

Legal Representative:

READ Matthew Charles, Venner, Shipley & Co., 20 Little Britain, London
EC1A 7DH, GB

Patent and Priority Information (Country, Number, Date):

Patent: WO 200102976 A1 20010111 (WO 0102976)

Application: WO 2000GB2531 20000630 (PCT/WO GB0002531)

Priority Application: EP 99305219 19990701

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES
FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU
LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT
TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-015/80

International Patent Class: H04J-014/00; G02B-006/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 3844

English Abstract

A data processing apparatus operates on data in different formats to
improve computational efficiency in a complex system. The apparatus
includes a backplane (2) for data signals in different formats such as
electrical and optical formats, adaptive filters (4) that receive data
signals in the different formats from the backplane, and processors (5)
to receive data derived from the backplane in the different formats, at
least one of the processors being operable to process data from one of
the filters and being responsive to the outcome of data filtering
performed by at least one other of the filters to adapt the processing
that is carried out. A code-breaking process is given as an example.

French Abstract

La presente invention concerne un appareil de traitement des donnees qui
agit sur des donnees de formats differents afin d'ameliorer l'efficacite

computationnelle dans un systeme complexe. L'appareil de l'invention comprend une face arriere (2) destinee a des signaux de donnees de formats differents tels que les formats electriques et optiques, des filtres adaptatifs (4) qui recoivent les signaux de donnees de formats differents depuis la face arriere, et des processeurs (5) qui recoivent les donnees de differents formats en provenance de la face arriere, au moins un des processeurs pouvant traiter les donnees provenant de l'un des filtres et etant sensible au resultat du filtrage de donnees effectuee par au moins un autre filtre pour adapter le traitement effectuee. Un processus d'analyse cryptographique est decrit a titre d'exemple.

Set	Items	Description
S1	1067	AU=(WINTER C? OR WINTER, C?)
S2	41	AU=(COKER P? OR COKER, P?)
S3	33	AU=(TATESON R? OR TATESON, R?)
S4	0	S1 AND S2 AND S3
S5	126	(S1 OR S2 OR S3) AND (MOVE? OR MOVING OR MIGRAT? OR MOTION? OR APPROACH? OR NEAR? OR CLOSER?)
S6	16	S5 AND (OBJECT? OR ONSCREEN? OR SCREEN? OR DISPLAY? OR MONITOR? OR ANIMATE?)
S7	5	S5 AND (DATABASE? OR DATABANK? OR DATAFILE? OR DATAMINE? OR DATA() (BASE? OR BANK? OR FILE? OR MINE) OR OODB? OR DBMS OR - RDB OR DB OR DBMS)
S8	21	S6 OR S7
S9	13	RD (unique items)
File	2:INSPEC 1969-2004/Nov W3	(c) 2004 Institution of Electrical Engineers
File	4:INSPEC 1983-2004/Nov W3	(c) 2004 Institution of Electrical Engineers
File	6:NTIS 1964-2004/Nov W3	(c) 2004 NTIS, Intl Cpyrght All Rights Res
File	8:Ei Compendex(R) 1970-2004/Nov W3	(c) 2004 Elsevier Eng. Info. Inc.
File	34:SciSearch(R) Cited Ref Sci 1990-2004/Nov W3	(c) 2004 Inst for Sci Info
File	35:Dissertation Abs Online 1861-2004/Nov	(c) 2004 ProQuest Info&Learning
File	65:Inside Conferences 1993-2004/Nov W4	(c) 2004 BLDSC all rts. reserv.
File	636:Gale Group Newsletter DB(TM) 1987-2004/Nov 30	(c) 2004 The Gale Group
File	647:CMP Computer Fulltext 1988-2004/Nov W3	(c) 2004 CMP Media, LLC
File	674:Computer News Fulltext 1989-2004/Sep W1	(c) 2004 IDG Communications
File	99:Wilson Appl. Sci & Tech Abs 1983-2004/Oct	(c) 2004 The HW Wilson Co.
File	94:JICST-EPlus 1985-2004/Oct W4	(c)2004 Japan Science and Tech Corp(JST)
File	148:Gale Group Trade & Industry DB 1976-2004/Nov 30	(c)2004 The Gale Group

9/3,K/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

6095975 INSPEC Abstract Number: C9901-6130V-013

Title: **Information flocking: data visualisation in virtual worlds using emergent behaviours**

Author(s): Proctor, G.; Winter, C.

Author Affiliation: BT Labs., UK

Conference Title: Virtual Worlds. First International Conference, VW'98.
Proceedings p.168-76

Editor(s): Heudin, J.-C.

Publisher: Springer-Verlag, Berlin, Germany

Publication Date: 1998 Country of Publication: Germany xii+412 pp.

ISBN: 3 540 64780 5 Material Identity Number: XX98-01843

Conference Title: Virtual Worlds First International Conference, VW'98
Proceedings

Conference Date: 1-3 July 1998 Conference Location: Paris, France

Language: English

Subfile: C

Copyright 1998, IEE

Author(s): Proctor, G.; Winter, C.

Abstract: A novel method of visualising **data based** upon the schooling behaviour of fish is described. The technique allows the user to see complex correlations between data items through the amount of time each fish spends **near** others. It is an example of a biologically inspired **approach** to data visualisation in virtual worlds, as well as being one of the first uses...

...Identifiers: biologically inspired **approach** ;

9/3,K/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

5532910 INSPEC Abstract Number: B9705-6210R-005, C9705-6130M-009

Title: Agents, mobility and multimedia information

Author(s): Titmuss, R.; Crabtree, I.B.; **Winter, C.S.**

Author Affiliation: Applic. & Technol. Dept., British Telecom Res. Labs., Ipswich, UK

Book Title: Software agents and soft computing. Towards enhancing machine intelligence. Concepts and applications p.146-59

Editor(s): Nwana, H.S.; Azarmi, N.

Publisher: Springer-Verlag, Berlin, Germany

Publication Date: 1997 Country of Publication: Germany xiv+296 pp.

ISBN: 3 540 62560 7 Material Identity Number: XB97-00012

Language: English

Subfile: B C

Copyright 1997, IEE

Author(s): Titmuss, R.; Crabtree, I.B.; **Winter, C.S.**

...Abstract: aspects of management and allocation of service components to perform the most appropriate translation and **movement** of information through the network. The agents use an open market model to provide the...

Descriptors: deductive **databases** ;

Set	Items	Description
S1	179334	DATABASE? OR DATABANK? OR DATAFILE? OR DATAOBJECT? OR DATA- () (BASE? OR FILE? OR OBJECT?) OR DB OR OODB? OR RDB?
S2	2708377	MOVE? OR MOVING OR TRAVEL? OR MIGRAT? OR MOTION? OR CRAWL? OR FLOAT? OR REPOSITION?
S3	1290207	RELEVAN? OR IMPORT? OR APPLICAB? OR WEIGH? OR SCALE? OR RA- NK? OR EVALUAT? OR SCORE? OR SCORING OR EVALUAT?
S4	2724706	CLOSE? OR APPROACH? OR NEAR? OR WITHDRAW? OR RETREAT? OR A- DJACEN? OR TOWARD? OR AWAY?
S5	3433073	IMAGE? OR OBJECT? OR ELEMENT? OR REPRESENTATION?
S6	1754400	VISUALI? OR ONSCREEN? OR SCREEN? OR DISPLAY? OR MONITOR? OR LCD? OR CRT?
S7	2588344	SORT? OR ORDER? OR REORDER? OR ARRANG? OR REARRANG? OR CLA- SSIF? OR CATEGOR? OR CATALOG?
S8	122	S1 AND S2 AND S3 AND S4
S9	35	S8 AND (S5 OR S6) AND S7
S10	16	S8 AND (S5 OR S6) AND IC=(G06F-007? OR G06F-017?)
S11	47	S9 OR S10
S12	21	S11 AND IC=G06F?
S13	21	IDPAT (sorted in duplicate/non-duplicate order)
S14	20	IDPAT (primary/non-duplicate records only)
File 347:JAPIO Nov 1976-2004/Jul(Updated 041102)		
(c) 2004 JPO & JAPIO		
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200476		
(c) 2004 Thomson Derwent		

14/5/1 (Item 1 from file: 350)
DIALOG(R) File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

016146377 **Image available**
WPI Acc No: 2004-304253/200428
XRAM Acc No: C04-115644
XRPX Acc No: N04-242287

Visualization of large- scale protein interaction data involves
yielding a graph by iterating a process moving each node of produced
initial layout to equilibrium position on predetermined number of times

Patent Assignee: UNIV INHA (UYIN-N); HAN K S (HANK-I); JU B (JUBB-I)

Inventor: HAN G S; JU B H; HAN K S; JU B

Number of Countries: 003 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040059521	A1	20040325	US 2002290432	A	20021107	200428 B
JP 2004118819	A	20040415	JP 2002319839	A	20021101	200428
KR 2004026227	A	20040330	KR 200257604	A	20020923	200446

Priority Applications (No Type Date): KR 200257604 A 20020923

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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US 20040059521	A1		20	G06F-019/00	
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JP 2004118819	A		12	G06F-017/30	
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KR 2004026227	A			G06T-017/00	
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Abstract (Basic): US 20040059521 A1

NOVELTY - Large- scale protein interaction data are visualized
by producing an initial layout by placing all nodes of protein
interaction data on a surface of a sphere; and yielding a graph by
iterating a process moving each node of the initial layout to
equilibrium position considering global spring forces between non-
adjacent nodes as well as local spring forces between adjacent
nodes, on a predetermined number of times.

DETAILED DESCRIPTION - Visualization of large- scale protein
interaction data, which yields a three-dimensional graph using proteins
as nodes and interactions between the proteins as edges, includes
producing an initial layout by placing all nodes of protein interaction
data on a surface of a sphere by increasing horizontal and vertical
angles of polar coordinates; and yielding a graph by iterating a
process moving each node of the initial layout to an equilibrium
position considering global spring forces between non- adjacent nodes
as well as local spring forces between adjacent nodes, on a
predetermined number of times.

USE - For visualizing large- scale protein interaction data.

ADVANTAGE - The inventive method is capable of visualizing
protein interactions at a faster speed than conventional algorithms. It
can be used for interactive analysis, as well as provide an integrated
system capable of directly visualizing query results from a
protein-protein interaction database .

DESCRIPTION OF DRAWING(S) - The figure describes an algorithm
layout of a method for visualizing large- scale protein interaction
data.

pp; 20 DwgNo 1/12

Title Terms: SCALE ; PROTEIN; INTERACT; DATA; YIELD; GRAPH; PROCESS; MOVE
; NODE; PRODUCE; INITIAL; LAYOUT; EQUILIBRIUM; POSITION; PREDETERMINED;
NUMBER; TIME

Derwent Class: B04; D16; T01

International Patent Class (Main): G06F-017/30 ; G06F-019/00 ;
G06T-017/00

International Patent Class (Additional): G01N-033/48; G01N-033/50;
G01N-033/53; G01N-033/566

File Segment: CPI; EPI

14/5/11 (Item 11 from file: 350)
DIALOG(R) File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

013514511 **Image available**
WPI Acc No: 2000-686457/200067
XRPX Acc No: N00-507508

Information selecting method in commercial organization, involves moving data files represented as elements from initial position towards sites based on relevance of sort parameters to respective data files

Patent Assignee: BRITISH TELECOM PLC (BRTE)
Inventor: COKER P M; TATESON R E; WINTER C S
Number of Countries: 024 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200043908	A1	20000727	WO 2000GB46	A	20000107	200067 B
AU 200019914	A	20000807	AU 200019914	A	20000107	200067
EP 1153353	A1	20011114	EP 2000900249	A	20000107	200175
			WO 2000GB46	A	20000107	

Priority Applications (No Type Date): EP 99302928 A 19990415; GB 991138 A 19990119

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200043908	A1	E	27	G06F-017/30	
Designated States (National): AU CA JP SG US					
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE					
AU 200019914	A			G06F-017/30	Based on patent WO 200043908
EP 1153353	A1	E		G06F-017/30	Based on patent WO 200043908
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					

Abstract (Basic): WO 200043908 A1

NOVELTY - The **relevance** of each **sort** statements to each **data file** is determined. **Data files** represented as **elements** on a **display** are made to **move** from initial position **towards** sites corresponding to each **sort** statement based on **relevance** of respective **sort** parameters to respective **data files**. Based on the position of respective **element** on the **display**, a **data file** is selected.

DETAILED DESCRIPTION - The **sort** statement site representing a respective **sort** statement is defined on a **display**. The **elements** are made to **move** from initial position **towards** sites according to **relevance** of respective **sort** parameters to respective **data files** and the position of sites relative to the respective **elements** provides visual indication of records being **sorted**. An INDEPENDENT CLAIM is also included for information selecting system.

USE - For accessing large quantities of data stored in computer based record system for commercial organization, telecommunication company.

ADVANTAGE - Overcomes the problem of selection based on binary **sort** statements since **data files** are represented according to the extent they agree or disagree with **sort** statements.

DESCRIPTION OF DRAWING(S) - The figure shows the **representation** of **display** unit **displaying** the user interface.

pp; 27 DwgNo 4/6

Title Terms: INFORMATION; SELECT; METHOD; COMMERCIAL; **MOVE** ; DATA; FILE; REPRESENT; **ELEMENT** ; INITIAL; POSITION; SITE; BASED; **RELEVANT** ; **SORT** ; PARAMETER; RESPECTIVE; DATA; FILE

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

14/5/12 (Item 12 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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013166780 **Image available**
WPI Acc No: 2000-338653/200029
Related WPI Acc No: 2000-338654; 2001-451213; 2001-464775
XRPX Acc No: N00-254189

Method of mapping interconnections between several data files by
displaying according to scale smaller than previous distance scale
one or more (regions, which respectively represent one or more files

Patent Assignee: SYMTEC LTD (SYMT-N); FRACTAL EDGE LTD (FRAC-N);

CLIFTON-BLIGH G (CLIF-I)

Inventor: CLIFTON-BLIGH G

Number of Countries: 083 Number of Patents: 010

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200013103	A1	20000309	WO 98GB3481	A	19981120	200029 B
AU 9912481	A	20000321	AU 9912481	A	19981120	200031
AU 9956344	A	20000321	AU 9956344	A	19990826	200031
EP 1105817	A1	20010613	EP 98955749	A	19981120	200134
			WO 98GB3481	A	19981120	
CN 1324464	A	20011128	CN 99812632	A	19990826	200219
EP 1105817	B1	20020918	EP 98955749	A	19981120	200269
			WO 98GB3481	A	19981120	
DE 69808152	E	20021024	DE 98608152	A	19981120	200278
			EP 98955749	A	19981120	
			WO 98GB3481	A	19981120	
US 20030050906	A1	20030313	WO 98GB3481	A	19981120	200321
			US 99473860	A	19991228	
ES 2184335	T3	20030401	EP 98955749	A	19981120	200328
US 6775659	B2	20040810	WO 98GB3481	A	19981120	200453
			WO 99GB2820	A	19990826	
			US 99473860	A	19991228	

Priority Applications (No Type Date): GB 9824779 A 19981111; GB 9818633 A 19980826

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200013103 A1 E 59 G06F-017/30

Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU
CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK
LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ
TM TR TT UA UG US UZ VN YU ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

AU 9912481 A Based on patent WO 200013103

AU 9956344 A Based on patent WO 200013104

EP 1105817 A1 E G06F-017/30 Based on patent WO 200013103

Designated States (Regional): BE DE ES FI FR GB IE IT NL SE

CN 1324464 A G06F-017/30

EP 1105817 B1 E G06F-017/30 Based on patent WO 200013103

Designated States (Regional): BE DE ES FI FR GB IE IT NL SE

DE 69808152 E G06F-017/30 Based on patent EP 1105817

Based on patent WO 200013103

US 20030050906 A1 G06F-007/00 Cont of application WO 98GB3481

ES 2184335 T3 G06F-017/30 Based on patent EP 1105817

US 6775659 B2 G06F-017/30 CIP of application WO 98GB3481

Cont of application WO 99GB2820

Abstract (Basic): WO-200013103 A1

NOVELTY - The method involves (n-1) further steps, i=2,...,n, of for
the or each i-th file displaying according to an i-th distance scale
smaller than the (i-1)-th distance scale one or more (i+1)-th
regions. The latter respectively represent one or more (i+1)-th files
which are logically related to the i-th file, and which are spatially
related to the i-th region representing that i-th file.

DETAILED DESCRIPTION - The third file represented by the third

circular region (27) is a frame set with two sections, a first section containing a single anchor, and a second section containing ten anchors. The third circular region (27) is divided into two by a line across its diameter, and one half is drawn to contain a single fourth circular region (28), while the other half of the third circular region (27) contains nine fourth circular regions so around its inner periphery. In this **display**, it is chosen only to **display** fourth circular regions (28,30) within the third circular region (27). This may indicate that none of the other third circular regions is associated with a file containing any anchors.

INDEPENDENT CLAIMS are included for:

- (a) a method for **moving** between **data files**
- (b) a method of **displaying** interconnections between several **data files**
- (c) an apparatus including a **display** to perform claimed methods
- (d) a computer program for performing claimed methods

USE - For mapping relationships between **data files** (or portions of a single **data file**), for **moving** between **data files** (or within a **data file**) such as electronic files, but may alternatively be files stored on any other recording medium, for example an optical or holographic data storage medium.

ADVANTAGE - A user can use a **display** produced according to the invention to map the part of the web **near** his current location (for example for navigating within the web) Provides an option, for example by performing a certain mouse click to generate a map of the files up to n clicks **away**. This would immediately tell him, for example, about the number of files a given number of clicks from his present location.

DESCRIPTION OF DRAWING(S) - The drawing shows a **screen** window including a map generated according to the present invention.

third circular region (27)

fourth circular region (28)

pp; 59 DwgNo 1/6

Title Terms: METHOD; MAP; INTERCONNECT; DATA; FILE; **DISPLAY**; ACCORD;

SCALE; SMALLER; DISTANCE; **SCALE**; ONE; MORE; REGION; RESPECTIVE;

REPRESENT; ONE; MORE; FILE

Derwent Class: P85; T01

International Patent Class (Main): G06F-007/00 ; G06F-017/30

International Patent Class (Additional): G09G-005/00

File Segment: EPI; EngPI

14/5/20 (Item 20 from file: 347)
DIALOG(R)File 347:JAPIO
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05383875 **Image available**
DATA RETRIEVING DEVICE

PUB. NO.: 08-339375 [JP 8339375 A]
PUBLISHED: December 24, 1996 (19961224)
INVENTOR(s): IKEUCHI HIROSHI
APPLICANT(s): SHARP CORP [000504] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 07-142932 [JP 95142932]
FILED: June 09, 1995 (19950609)
INTL CLASS: [6] G06F-017/30
JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications)

ABSTRACT

PURPOSE: To efficiently narrow the data **displayed** as a retrieval result on a **display** device.

CONSTITUTION: When a retrieval request item is inputted by an input device 1, the degrees of similarities of the both item and the data stored in a retrieval **object database** 2 are calculated based on the degree of similarity of the item and the degree of similarity of each data stored in the retrieval **object database** 2. For the retrieval request item, the data of the high degree of similarity is extracted and is **displayed** with the retrieval request item on a **display** device 4. When the unnecessary data as the retrieval result from each data **displayed** on the **display** device 4 is made to be **moved** so as to be **away** from the retrieval **object** item by an operation device 5, the data of the high degree of similarity for the **moved** data is made to be **moved** so as to be **away** from the retrieval **object** item on a large **scale**. The unnecessary result as the retrieval result is made to be **away** from the retrieval **object** item.

Set	Items	Description
S1	179334	DATABASE? OR DATABANK? OR DATAFILE? OR DATAOBJECT? OR DATA- () (BASE? OR FILE? OR OBJECT?) OR DB OR OODB? OR RDB?
S2	2708377	MOVE? OR MOVING OR TRAVEL? OR MIGRAT? OR MOTION? OR CRAWL? OR FLOAT? OR REPOSITION?
S3	1290207	RELEVAN? OR IMPORT? OR APPLICAB? OR WEIGH? OR SCALE? OR RA- NK? OR EVALUAT? OR SCORE? OR SCORING OR EVALUAT?
S4	2724706	CLOSE? OR APPROACH? OR NEAR? OR WITHDRAW? OR RETREAT? OR A- DJACEN? OR TOWARD? OR AWAY?
S5	3433073	IMAGE? OR OBJECT? OR ELEMENT? OR REPRESENTATION?
S6	1754400	VISUALI? OR ONSCREEN? OR SCREEN? OR DISPLAY? OR MONITOR? OR LCD? OR CRT?
S7	2588344	SORT? OR ORDER? OR REORDER? OR ARRANG? OR REARRANG? OR CLA- SSIF? OR CATEGOR? OR CATALOG?
S8	122	S1 AND S2 AND S3 AND S4
S9	35	S8 AND (S5 OR S6) AND S7
S10	16	S8 AND (S5 OR S6) AND IC=(G06F-007? OR G06F-017?)
S11	47	S9 OR S10
S12	21	S11 AND IC=G06F?
S13	21	IDPAT (sorted in duplicate/non-duplicate order)
S14	20	IDPAT (primary/non-duplicate records only)
S15	934	S1 AND S2 AND S4
S16	208	S15 AND S7
S17	292	DATA()VISUAL? OR DATAVISUAL?
S18	0	S16 AND S17
S19	1	S15 AND S17
S20	0	S17 AND S2 AND S3 AND S4
S21	187055	(S5 OR VISUALI?) (3N) (S2 OR S4)
S22	12142	S21 AND S3
S23	213	S1 AND S22
S24	77	S23 AND IC=(G06F-017? OR G06F-007?)
S25	82478	S7(4N)S4
S26	2	S24 AND S25
S27	18	S24 AND S7
S28	17	(S26 OR S27) NOT S12
S29	8	S28 NOT AD=19990119:20010119
S30	4	S29 NOT AD=20010119:20030119
S31	4	S30 NOT AD=20030119:20041201
S32	1448	(S1 OR S17) (3N) (FLOCK? OR GROUP? OR AGGREGAT?)
S33	1	S32 AND S24
S34	1	S33 NOT S29
S35	9	S15 AND S32
S36	18	S35 OR S29 OR S34
S37	17	S36 NOT AD=19990119:20010119
S38	9	S37 NOT AD=20010119:20041201
S39	9	IDPAT (sorted in duplicate/non-duplicate order)
S40	9	IDPAT (primary/non-duplicate records only)

File 347:JAPIO Nov 1976-2004/Jul(Updated 041102)

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File 350:Derwent WPIX 1963-2004/UD,UM &UP=200476

(c) 2004 Thomson Derwent

40/5/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

010976855 **Image available**
WPI Acc No: 1996-473804/199647
Related WPI Acc No: 2004-695806
XRPX Acc No: N96-399673

Data display method in e.g. document, still picture, moving image ,
multimedia data - involves display in classified data group in
particular position on corresponding display screen

Patent Assignee: CANON KK (CANO)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8241323	A	19960917	JP 9544026	A	19950303	199647 B

Priority Applications (No Type Date): JP 9544026 A 19950303

Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
JP 8241323 A 19 G06F-017/30

Abstract (Basic): JP 8241323 A

The data display method involves displaying the data after a search
in the **database** by a keyword. A number of keywords **relevant** to a
particular keyword and corresponding to a position on display screen
are stored. A data group searched by the keyword is **classified** into
multiple data groups with different keywords.

The data groups are displayed on a corresponding display screen.
The data groups are displayed in a form of sum nail images
(30,31,40-42), corresponding to data. The sum nail images are displayed
in a background image (20-23).

ADVANTAGE - **Classifies** search result using object beforehand
related with keyword.

Dwg.3/21

Title Terms: DATA; DISPLAY; METHOD; DOCUMENT; STILL; PICTURE; MOVE; IMAGE;
DATA; DISPLAY; **CLASSIFY** ; DATA; GROUP; POSITION; CORRESPOND; DISPLAY;
SCREEN

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

Set	Items	Description
S1	972126	DATABASE? OR DATABANK? OR DATAFILE? OR DATAOBJECT? OR DATA- () (BASE? OR FILE? OR OBJECT?) OR DB OR OODB? OR RDB?
S2	3103358	MOVE? OR MOVING OR TRAVEL? OR MIGRAT? OR MOTION? OR CRAWL? OR FLOAT? OR REPOSITION?
S3	10616329	RELEVAN? OR IMPORT? OR APPLICAB? OR WEIGH? OR SCALE? OR RA- NK? OR EVALUAT? OR SCORE? OR SCORING OR EVALUAT?
S4	7228112	CLOSE? OR APPROACH? OR NEAR? OR WITHDRAW? OR RETREAT? OR A- DJACEN? OR TOWARD? OR AWAY?
S5	7937520	IMAGE? OR OBJECT? OR ELEMENT? OR REPRESENTATION?
S6	2849271	VISUALI? OR ONSCREEN? OR SCREEN? OR DISPLAY? OR MONITOR? OR LCD? OR CRT?
S7	5744012	SORT? OR ORDER? OR REORDER? OR ARRANG? OR REARRANG? OR CLA- SSIF? OR CATEGOR? OR CATALOG?
S8	3992	S1 AND S2 AND S3 AND S4
S9	1023	S8 AND S7
S10	558	S9 AND (S5 OR S6)
S11	419	RD (unique items)
S12	236	S11 NOT PY>1999
S13	13946	S1(3N)S4
S14	8	S12 AND S13
S15	59	S5(3N)(S2 OR S4) AND S12
S16	65	S15 OR S14
S17	65	RD (unique items)
S18	65	S17 NOT PY>1999
S19	64	S18 NOT PD=19990119:20010119
S20	64	S19 NOT PD=200010119:20041201
File	8: Ei Compendex(R)	1970-2004/Nov W3 (c) 2004 Elsevier Eng. Info. Inc.
File	35: Dissertation Abs Online	1861-2004/Nov (c) 2004 ProQuest Info&Learning
File	202: Info. Sci. & Tech. Abs.	1966-2004/Nov 02 (c) 2004 EBSCO Publishing
File	65: Inside Conferences	1993-2004/Nov W4 (c) 2004 BLDSC all rts. reserv.
File	2: INSPEC	1969-2004/Nov W3 (c) 2004 Institution of Electrical Engineers
File	94: JICST-EPlus	1985-2004/Oct W4 (c) 2004 Japan Science and Tech Corp(JST)
File	111: TGG Natl. Newspaper Index(SM)	1979-2004/Nov 24 (c) 2004 The Gale Group
File	233: Internet & Personal Comp. Abs.	1981-2003/Sep (c) 2003 EBSCO Pub.
File	6: NTIS	1964-2004/Nov W3 (c) 2004 NTIS, Intl Cpyrght All Rights Res
File	144: Pascal	1973-2004/Nov W3 (c) 2004 INIST/CNRS
File	434: SciSearch(R) Cited Ref Sci	1974-1989/Dec (c) 1998 Inst for Sci Info
File	34: SciSearch(R) Cited Ref Sci	1990-2004/Nov W3 (c) 2004 Inst for Sci Info
File	99: Wilson Appl. Sci & Tech Abs	1983-2004/Oct (c) 2004 The HW Wilson Co.
File	95: TEME-Technology & Management	1989-2004/Jun W1 (c) 2004 FIZ TECHNIK

20/3,K/6 (Item 6 from file: 8)

DIALOG(R) File 8: Ei Compendex(R)

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05383394 E.I. No: EIP99104833126

Title: Design of video scene databases with mapping to virtual CG space

Author: Tomii, Takashi; Varga, Szabolcs; Imai, Sayaka; Arisawa, Hiroshi

Corporate Source: Yokohama Natl Univ, Yokohama, Jpn

Conference Title: Proceedings of the 1999 6th International Conference on Multimedia Computing and Systems - IEEE ICMCS'99

Conference Location: Florence, Italy **Conference Date:** 19990607-19990611

E.I. Conference No.: 55370

Source: International Conference on Multimedia Computing and Systems-Proceedings v 2 1999. p 741-746

Publication Year: 1999

CODEN: 002114

Language: English

Title: Design of video scene databases with mapping to virtual CG space

Abstract: This paper presents a new **approach** of modeling Video Scenes by adding meaning to the shape of real world **objects** and simplifying it. In **order** to store shapes and/or **motions** of **objects** that appear in real world scenes into the **database**, expressing the shape and its meaning and handling them efficiently are indispensable. For the purpose, we introduce a method for constructing a scene **database** based on an approximate polygon model that reflects the individual shape and meanings of an **object**, called Shape of Individual Model. It is particularly suitable for modeling the human head. The scene **database** is constructed using the Shapes of Individual Models and their 3-dimensional **motion** by mapping them into virtual CG space. And this paper also discusses the **evaluation** of the created Shape of Individual Model in an application of the scene **database**. (Author abstract) 11 Refs.

Descriptors: *Query languages; Virtual reality; Three dimensional computer graphics; Multimedia systems; **Object** recognition; **Motion** compensation; Data acquisition

Identifiers: Video scene **database** system; Shape of individual model

20/3,K/8 (Item 8 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

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05083555 E.I. No: EIP98084312529

Title: Specifications for efficient indexing in spatiotemporal databases

Author: Theodoridis, Yannis; Sellis, Timos; Papadopoulos, Apostolos N.; Manolopoulos, Yannis

Corporate Source: Natl Technical Univ of Athens, Athens, Greece

Conference Title: Proceedings of the 1998 10th International Conference on Scientific and Statistical Database Management

Conference Location: Capri, Italy Conference Date: 19980701-19980703

E.I. Conference No.: 48735

Source: Scientific and Statistical Database Management - Proceedings of the International Working Conference 1998. IEEE Comp Soc, Los Alamitos, CA, USA, 98TB100243. p 123-132

Publication Year: 1998

CODEN: 85QLA8

Language: English

Title: Specifications for efficient indexing in spatiotemporal databases

Abstract: A new issue that arises in modern applications involves the efficient manipulation of (static or **moving**) spatial **objects**, and the relationships among them. As a result, modern **database** systems should be able to efficiently support that type of data. **Towards** this goal, appropriate extensions of multidimensional access methods can be exploited in **order** to index and retrieve spatiotemporal **objects**, satisfying users' demands. This paper introduces the basic specifications such a spatiotemporal index structure should follow, **evaluates** existing proposals with respect to the above specifications, and illustrates issues of interest involving **object representation**, query processing, and index maintenance. (Author abstract) 29 Refs.

Descriptors: *Distributed **database** systems; Indexing (of information); Information retrieval; Data structures; Data reduction; Query languages

Identifiers: Spatiotemporal **databases**; Multidimensional access methods

20/3,K/31 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

6172891 INSPEC Abstract Number: C1999-04-6160S-007

Title: Design of real world scene databases with mapping to virtual CG space

Author(s): Tomii, T.; Kobayashi, M.; Arisawa, H.

Author Affiliation: Div. of Electr. & Comput. Eng., Yokohama Nat. Univ., Japan

Journal: Transactions of the Institute of Electronics, Information and Communication Engineers D-I vol.J82D-I, no.1 p.211-22

Publisher: Inst. Electron. Inf. & Commun. Eng,

Publication Date: Jan. 1999 Country of Publication: Japan

CODEN: DTRDES ISSN: 0915-1915

SICI: 0915-1915(199901)J82DI:1L.211:DRWS;1-M

Material Identity Number: M972-1999-002

Language: Japanese

Subfile: C

Copyright 1999, IEE

Title: Design of real world scene databases with mapping to virtual CG space

Abstract: This paper presents a new **approach** of modeling real world **databases** by adding meaning to the shape of real world **objects** and simplifying it. In **order** to store shapes and/or **motions** of **objects** that appear in real world scenes into the **database**, expressing the shape and its meaning and handling them efficiently are indispensable. For that purpose, we introduce a scene **database** based on an approximate polygon model that reflects the individual shape and meanings of an **object**, called Shape of Individual Model. The scene **database** is constructed using the Shapes of Individual Models and Their 3-dimensional **motion** by mapping them into virtual CG space. And this paper also describes the **evaluation** of the created Shape of Individual Model and the estimation of query processing in an application of the scene **database**.

Descriptors: **image** retrieval...

...visual **databases**

Identifiers: real world scene **databases** ; ...

20/3,K/33 (Item 6 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

5665791 INSPEC Abstract Number: C9709-7240-012

Title: Exploration of document collections with self-organizing maps: a novel approach to similarity representation

Author(s): Merkl, D.

Author Affiliation: Dept. of Comput. Sci., R. Melbourne Inst. of Technol., Vic., Australia

Conference Title: Principles of Data Mining and Knowledge Discovery. First European Symposium, PKDD '97. Proceedings p.101-11

Editor(s): Komorowski, J.; Zytchow, J.

Publisher: Springer-Verlag, Berlin, Germany

Publication Date: 1997 Country of Publication: Germany ix+396 pp.

ISBN: 3 540 63223 9 Material Identity Number: XX97-01603

Conference Title: Principles of Data Mining and Knowledge Discovery. First European Symposium, PKDD '97. Proceedings

Conference Sponsor: Dept. Comput. Inf. Sci.; Norwegian Res. Council; Norwegian Artificial Intelligence Soc

Conference Date: 24-27 June 1997 Conference Location: Trondheim, Norway

Language: English

Subfile: C

Copyright 1997, IEE

Title: Exploration of document collections with self-organizing maps: a novel approach to similarity representation

Abstract: **Classification** is one of the central issues in any system dealing with text data. The need for effective **approaches** is dramatically increased nowadays, due to the advent of massive digital libraries containing free-form...

... of the various items contained in a text archive. In this paper, we demonstrate the **applicability** of self-organizing maps, a neural network model adhering to the unsupervised learning paradigm, for the task of text document clustering. In **order** to improve the **representation** of the result, we present an extension to the basic learning rule that captures the **movement** of the various **weight** vectors in a 2D output space for convenient visual inspection. The result of the extended training algorithm allows intuitive analysis of the similarities inherent in the input data and, most **importantly**, intuitive recognition of cluster boundaries.

Descriptors: **classification** ; ...

...full-text **databases** ; ...

...pattern **classification** ;

...Identifiers: similarity **representation** ; ...

...text data **classification** ; ...

... **weight** vectors

20/3,K/52 (Item 2 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

06180212 Genuine Article#: YA010 No. References: 110

Title: Review of image and video indexing techniques

Author(s): Idris F (REPRINT) ; Panchanathan S

Corporate Source: UNIV OTTAWA,DEPT ELECT ENGN, VISUAL COMP & COMMUN
LAB/OTTAWA/ON K1N 6N5/CANADA/ (REPRINT)

Journal: JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION, 1997, V8
, N2 (JUN), P146-166

ISSN: 1047-3203 Publication date: 19970600

Publisher: ACADEMIC PRESS INC JNL-COMP SUBSCRIPTIONS, 525 B ST, STE 1900,
SAN DIEGO, CA 92101-4495

Language: English Document Type: REVIEW (ABSTRACT AVAILABLE)

Title: Review of image and video indexing techniques

Abstract: Visual **database** systems require efficient indexing to
facilitate fast access to the **images** and video sequences in the
database . Recently, several content-based indexing methods for **image**
and video based on spatial relationships; color, texture, shape,
sketch, **object motion** , and camera parameters have been reported in
the literature. The goal of this paper is...

...content-based indexing techniques and to point out the relative
advantages and disadvantages of each **approach** . (C) 1997 Academic
Press.

...Identifiers--SCENE CHANGE DETECTION; MPEG COMPRESSED VIDEO; SHAPE
RETRIEVAL; SYSTEMS; **REPRESENTATION**; **CLASSIFICATION**; DECOMPOSITION;
QUANTIZATION; HISTOGRAMS; PERCEPTION

Research Fronts: 95-0540 001 (SOFTWARE REUSE; PROBABILISTIC
INFORMATION-RETRIEVAL; TOPICAL **RELEVANCE** RELATIONSHIPS; MEDLINE
SEARCHING; MODELING COORDINATION; **OBJECT** -ORIENTED TECHNOLOGY)

95-1134 001 (COMBINATORIAL IDENTITIES; HYPERGEOMETRIC REDUCTION
FORMULAS INVOLVING ROOTS OF UNITY; MULTIDIMENSIONAL QUADTREES;
NONDEGENERATE MANY-FERMION SYSTEMS)

95-1928 001 (FRACTIONAL BROWNIAN- **MOTION** ; TEXTURE SEGMENTATION USING
FRACTAL DIMENSION; LONG MEMORY TIME-SERIES)

95-4072 001 (**IMAGE** RETRIEVAL; ICONIC **REPRESENTATIONS** ; TRAFFIC SIGN
RECOGNITION USING COLOR INFORMATION)

95-5454 001 (EXTENDED FUZZY RELATIONAL **DATABASE** MODELS; INTERVAL
QUERIES; LINEAR-TIME ALGORITHM; CONCURRENT ENGINEERING; INTEGRATED
ENVIRONMENT

Set	Items	Description
S1	972126	DATABASE? OR DATABANK? OR DATAFILE? OR DATAOBJECT? OR DATA- () (BASE? OR FILE? OR OBJECT?) OR DB OR OODB? OR RDB?
S2	3103358	MOVE? OR MOVING OR TRAVEL? OR MIGRAT? OR MOTION? OR CRAWL? OR FLOAT? OR REPOSITION?
S3	10616329	RELEVAN? OR IMPORT? OR APPLICAB? OR WEIGH? OR SCALE? OR RA- NK? OR EVALUAT? OR SCORE? OR SCORING OR EVALUAT?
S4	7228112	CLOSE? OR APPROACH? OR NEAR? OR WITHDRAW? OR RETREAT? OR A- DJACEN? OR TOWARD? OR AWAY?
S5	7937520	IMAGE? OR OBJECT? OR ELEMENT? OR REPRESENTATION?
S6	2849271	VISUALI? OR ONSCREEN? OR SCREEN? OR DISPLAY? OR MONITOR? OR LCD? OR CRT?
S7	5744012	SORT? OR ORDER? OR REORDER? OR ARRANG? OR REARRANG? OR CLA- SSIF? OR CATEGOR? OR CATALOG?
S8	3992	S1 AND S2 AND S3 AND S4
S9	1023	S8 AND S7
S10	558	S9 AND (S5 OR S6)
S11	419	RD (unique items)
S12	236	S11 NOT PY>1999
S13	13946	S1(3N)S4
S14	8	S12 AND S13
S15	59	S5(3N)(S2 OR S4) AND S12
S16	65	S15 OR S14
S17	65	RD (unique items)
S18	65	S17 NOT PY>1999
S19	64	S18 NOT PD=19990119:20010119
S20	64	S19 NOT PD=200010119:20041201
S21	21011	(DATA OR INFORMATION OR S1) (N) (VISUALI?)
S22	107	S2 AND S3 AND S21 AND S7
S23	107	S22 NOT S16
S24	79	RD (unique items)
S25	36	S24 NOT PY>1999
S26	14	S25 AND S4
File	8: Ei	Compendex(R) 1970-2004/Nov W3 (c) 2004 Elsevier Eng. Info. Inc.
File	35: Dissertation	Abs Online 1861-2004/Nov (c) 2004 ProQuest Info&Learning
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File	34: SciSearch(R)	Cited Ref Sci 1990-2004/Nov W3 (c) 2004 Inst for Sci Info
File	99: Wilson Appl.	Sci & Tech Abs 1983-2004/Oct (c) 2004 The HW Wilson Co.
File	95: TEME-Technology & Management	1989-2004/Jun W1 (c) 2004 FIZ TECHNIK

26/5/14 (Item 1 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management
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01286795 M99030567523

Control your world in a glance. Data visualization simplifies the complex

Agrusa, R; Singers, RR
ICONICS Foxborough, USA; Johnson Controls, Milwaukee, USA
Heating, Piping, Air Conditioning HPAC, v71, nSupplement Building Systems
Innovation, pp21-22,25-27,29,31-32, 1999
Document type: journal article Language: English
Record type: Abstract
ISSN: 0017-940X

ABSTRACT:

The article describes the ideal facility management: problems are identified and an action taken before an alarm activates, equipment fails or people call in complaints. Modern workstations and **data visualization** systems are bringing this ideal **closer** to reality even as building systems become more complex. In fact, complex network systems that channel information to a central workstation make clear graphical presentation all the more **important**. Visual presentations are the critical link between machinery and systems and the human beings that manage them. The goal of data visualization must be to help those human beings spend less time scanning, **sorting** and interpreting information and more time **moving** proactively to solve problems and to drive the enterprise forward. Today's computing technology, combined with industrywide open standards that permit plug-and-play software compatibility and facilitate data sharing across computer networks, enable visual displays of ever-increasing clarity and power. With colorful animated displays, operators can not only visualize devices and processes but also manipulate them with simple on-screen tools. As these interactive, detailed displays improve, new-generation holistic displays help operators visualize entire complex systems almost instantly. Simple visual patterns highlight items needing attention. The operator then easily navigates through more detailed displays to isolate, diagnose and solve problems.

DESCRIPTORS: DATA TRANSMISSION; PLANT MONITORING; PREVENTIVE MAINTENANCE;
REMOTE MONITORING; MACHINE MONITORING; MONITORING SYSTEMS; SUPERVISORY
PROGRAMS; DEFECT DETECTION; CONDITION MONITORING; COMPUTER APPLICATIONS;
PROBLEM SOLVING; **DATA VISUALISATION**
IDENTIFIERS: FACILITY MANAGEMENT; Anlagenzustandsueberwachung;
Datenvisualisierung

26/5/5 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

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6201783 INSPEC Abstract Number: B1999-05-6320E-011

Title: The application of real time 3D acoustical imaging

Author(s): Hansen, R.K.; Andersen, P.A.

Author Affiliation: OmniTech AS, Bergen, Norway

Conference Title: IEEE Oceanic Engineering Society. OCEANS'98. Conference Proceedings (Cat. No.98CH36259) Part vol.2 p.738-41 vol.2

Publisher: IEEE, New York, NY, USA

Publication Date: 1998 Country of Publication: USA 3 vol. xxxi+1853 pp.

ISBN: 0 7803 5045 6 Material Identity Number: XX-1998-02844

U.S. Copyright Clearance Center Code: 0 7803 5045 6/98/\$10.00

Conference Title: IEEE Oceanic Engineering Society. OCEANS'98. Conference Proceedings

Conference Date: 28 Sept.-1 Oct. 1998 Conference Location: Nice, France

Language: English Document Type: Conference Paper (PA)

Treatment: Theoretical (T)

Abstract: The advent of real time 3D acoustical imaging makes entirely new sensing capabilities available to the ocean community. This paper presents the fundamentals of this new technique and explains the differences between this method and conventional type imaging methods like video and sonar. 3D real time acoustical imaging is characterized by a number of **important** features like the ability to image a **moving** object, image presentation in a 3D environment, extraction of x,y,z coordinates, the possibility of adding virtual objects to the 3D scene as well as imaging in turbid water with practically zero visibility. 3D real time acoustics generate an "acoustic movie" with an update rate of between 2 and 10 images per second. Hence an object **moving** in any direction can be shown real time. All acoustic 3D data are known with respect to reflection intensity and x,y and z co-ordinates and can thus be shown in a 3D environment, i.e. the observer can change observation point in the 3D scene in **order** to acquire the best possible information. Moreover, knowledge of the 3D geometry allows for extraction of x,y,z co-ordinates for any pixel in the 3D image. Size and distance data are thus easy to obtain. The 3D presentation method allows for addition of virtual objects in the scene. The virtual objects can be described in VRML-format. The detection range of acoustical imaging systems extends to at least 100 metres, a range that exceeds the capabilities of any optical system. Also, even in **near** zero visibility environments, an acoustical system will generate images. (4 Refs)

Subfile: B

Descriptors: data visualisation ; real-time systems; sonar detection; sonar imaging

Identifiers: real time 3D acoustical imaging; **moving** object; image presentation; coordinates; virtual objects; turbid water; acoustic movie; update rate; reflection intensity; observation point; distance; size; VRML-format; detection range

Class Codes: B6320E (Sonar and acoustic radar); B6135 (Optical, image and video signal processing)

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Set	Items	Description
S1	972126	DATABASE? OR DATABANK? OR DATAFILE? OR DATAOBJECT? OR DATA- () (BASE? OR FILE? OR OBJECT?) OR DB OR OODB? OR RDB?
S2	3103358	MOVE? OR MOVING OR TRAVEL? OR MIGRAT? OR MOTION? OR CRAWL? OR FLOAT? OR REPOSITION?
S3	10616329	RELEVAN? OR IMPORT? OR APPLICAB? OR WEIGH? OR SCALE? OR RA- NK? OR EVALUAT? OR SCORE? OR SCORING OR EVALUAT?
S4	7228112	CLOSE? OR APPROACH? OR NEAR? OR WITHDRAW? OR RETREAT? OR A- DJACEN? OR TOWARD? OR AWAY?
S5	7937520	IMAGE? OR OBJECT? OR ELEMENT? OR REPRESENTATION?
S6	2849271	VISUALI? OR ONSCREEN? OR SCREEN? OR DISPLAY? OR MONITOR? OR LCD? OR CRT?
S7	5744012	SORT? OR ORDER? OR REORDER? OR ARRANG? OR REARRANG? OR CLA- SSIF? OR CATEGOR? OR CATALOG?
S8	3992	S1 AND S2 AND S3 AND S4
S9	1023	S8 AND S7
S10	558	S9 AND (S5 OR S6)
S11	419	RD (unique items)
S12	236	S11 NOT PY>1999
S13	13946	S1(3N)S4
S14	8	S12 AND S13
S15	59	S5(3N)(S2 OR S4) AND S12
S16	65	S15 OR S14
S17	65	RD (unique items)
S18	65	S17 NOT PY>1999
S19	64	S18 NOT PD=19990119:20010119
S20	64	S19 NOT PD=200010119:20041201
S21	21011	(DATA OR INFORMATION OR S1) (N) (VISUALI?)
S22	107	S2 AND S3 AND S21 AND S7
S23	107	S22 NOT S16
S24	79	RD (unique items)
S25	36	S24 NOT PY>1999
S26	14	S25 AND S4
File	8: Ei Compendex(R)	1970-2004/Nov W3 (c) 2004 Elsevier Eng. Info. Inc.
File	35: Dissertation Abs Online	1861-2004/Nov (c) 2004 ProQuest Info&Learning
File	202: Info. Sci. & Tech. Abs.	1966-2004/Nov 02 (c) 2004 EBSCO Publishing
File	65: Inside Conferences	1993-2004/Nov W4 (c) 2004 BLDSC all rts. reserv.
File	2: INSPEC	1969-2004/Nov W3 (c) 2004 Institution of Electrical Engineers
File	94: JICST-EPlus	1985-2004/Oct W4 (c) 2004 Japan Science and Tech Corp(JST)
File	111: TGG Natl. Newspaper Index(SM)	1979-2004/Nov 24 (c) 2004 The Gale Group
File	233: Internet & Personal Comp. Abs.	1981-2003/Sep (c) 2003 EBSCO Pub.
File	6: NTIS	1964-2004/Nov W3 (c) 2004 NTIS, Intl Cpyrght All Rights Res
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File	434: SciSearch(R) Cited Ref Sci	1974-1989/Dec (c) 1998 Inst for Sci Info
File	34: SciSearch(R) Cited Ref Sci	1990-2004/Nov W3 (c) 2004 Inst for Sci Info
File	99: Wilson Appl. Sci & Tech Abs	1983-2004/Oct (c) 2004 The HW Wilson Co.
File	95: TEME-Technology & Management	1989-2004/Jun W1 (c) 2004 FIZ TECHNIK

26/5/1 (Item 1 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

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01577717 ORDER NO: AAD97-19265

CONCURRENT DATA STREAMS WITH HETEROGENEOUS DEVICES (PARALLEL PROCESSING)

Author: MYLLYMAKI, JUSSI PETRI

Degree: PH.D.

Year: 1997

Corporate Source/Institution: THE UNIVERSITY OF WISCONSIN - MADISON (0262)

Supervisor: MIRON LIVNY

Source: VOLUME 58/05-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 2511. 160 PAGES

Descriptors: COMPUTER SCIENCE

Descriptor Codes: 0984

The ability to access several datasets concurrently on heterogeneous storage devices is becoming increasingly **important** for data-intensive applications, including database, data mining, and **data visualization** systems. The basic problem faced by applications is that while datasets can reside on a variety of storage systems such as secondary, tertiary, and network storage, the CPU can only operate on memory-resident data. Practical solutions are required to allow applications to **move** datasets from heterogeneous storage devices into memory and back to the devices while maximizing data transfer efficiency and minimizing the amount of time the CPU waits for I/O.

A key factor in achieving high data transfer efficiency is to exploit I/O concurrency. The continually increasing performance gap between CPUs and storage devices has made it imperative for the computer system to perform data transfers on several storage devices concurrently. Operating systems have traditionally attempted to increase I/O concurrency and reduce the amount of time the CPU waits for I/O by overlapping the CPU processing of one application with the I/Os of another (inter-application I/O concurrency). An alternative is to overlap the CPU processing of a single application with its own data transfers (intra-application I/O concurrency). Current trends in computing technology are making the latter **approach** increasingly **important**. The transition of processing from the mainframe to the desktop, changes in processor and storage device technologies, and the emergence of the World Wide Web are all contributing to the shift in the nature of I/O concurrency.

The goal of the research presented in this thesis is to explore data buffering mechanisms and policies which allow applications to exploit I/O concurrency on heterogeneous storage devices. The central theme of the research is application-driven I/O concurrency. The first part of this thesis focuses on the performance characteristics of storage devices and I/O interfaces. Next, we describe a buffer management system which allows applications to access data on heterogeneous devices efficiently, concurrently, and uniformly. In the third part of the thesis, we examine three applications which use the buffer manager: the DEVis **data visualization** system, a file **sorting** application, and a relational join.

Set	Items	Description
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S2	12653300	MOVE? OR MOVING OR TRAVEL? OR MIGRAT? OR MOTION? OR CRAWL? OR FLOAT? OR REPOSITION?
S3	16052103	RELEVAN? OR IMPORT? OR APPLICAB? OR WEIGH? OR SCALE? OR RA- NK? OR EVALUAT? OR SCORE? OR SCORING OR EVALUAT?
S4	17656413	CLOSE? OR APPROACH? OR NEAR? OR WITHDRAW? OR RETREAT? OR A- DJACEN? OR TOWARD? OR AWAY?
S5	7220803	IMAGE? OR OBJECT? OR ELEMENT? OR REPRESENTATION?
S6	5999440	VISUALI? OR ONSCREEN? OR SCREEN? OR DISPLAY? OR MONITOR? OR LCD? OR CRT?
S7	13580890	SORT? OR ORDER? OR REORDER? OR ARRANG? OR REARRANG? OR CLA- SSIF? OR CATEGOR? OR CATALOG?
S8	57	S1(10N)S2(10N)S3(10N)S4(10N)S5(10N)S6(10N)S7
S9	24498	(S5 OR S6) (3N)S2(4N)S4
S10	480	S1(S)S9
S11	11618	DATA()VISUALI? OR DATAVISUAL?
S12	1	S10(S)S11
S13	4	S9(S)S11
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S15	19	S14(S)S3
S16	116207	(S1 OR S5) (2N)S2
S17	23	S8 AND S16
S18	46	S12 OR S13 OR S15 OR S15 OR S17
S19	37	RD (unique items)
File	275:	Gale Group Computer DB(TM) 1983-2004/Nov 30 (c) 2004 The Gale Group
File	47:	Gale Group Magazine DB(TM) 1959-2004/Nov 30 (c) 2004 The Gale group
File	75:	TGG Management Contents(R) 86-2004/Nov W2 (c) 2004 The Gale Group
File	636:	Gale Group Newsletter DB(TM) 1987-2004/Nov 30 (c) 2004 The Gale Group
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File	674:	Computer News Fulltext 1989-2004/Sep W1 (c) 2004 IDG Communications
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File 634:San Jose Mercury Jun 1985-2004/Nov 29
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19/3,K/16 (Item 5 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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01287197 Supplier Number: 41503668
DC Beefs Up Visualization to Catch the Eye of Govt.
Government Computer News, p8
August 20, 1990
Language: English Record Type: Abstract
Document Type: Magazine/Journal; Tabloid; Trade

ABSTRACT:

Digital Equipment has a licensing agreement with Stardent Computer (Newton, MA) to market a **data visualization** program, called Application Visualization System (AVS). The software, based on PHIGS+ and X Window System...

...users to see much geometric, image and volumetric info. The software reflects 2 trends in **visualization : movement away** from graphical libraries and programming, and the integration of graphics and imaging.
...

19/3,K/30 (Item 1 from file: 13)
DIALOG(R)File 13:BAMP
(c) 2004 The Gale Group. All rts. reserv.

1164692 Supplier Number: 02440836 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Trends in Data Visualization Software for Business Users
(Three key trends in data visualization software in recent years have been
the expansion of the types of charts available, the level of user
interaction with visualization and its dynamism, and the size and
complexity of data structures that can be depicted)
Article Author(s): Russom, Philip
DM Review, v 10, n 5, p 65-67
May 2000
DOCUMENT TYPE: Journal ISSN: 1521-2912 (United States)
LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 1851

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:
...instead of the user interface.

A Thousand Points of Data

A strong trend with advanced **data visualization** is a **move toward**
representing large and/or complex data sets, unlike the average bar or pie
chart that...

...tools have long supported charting for their online reports. A few OLAP
tools now include **data visualization** capabilities for representing
complex multidimensional data.

Most charting typically involves a one-time read of...

Set	Items	Description
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S3	16052103	RELEVAN? OR IMPORT? OR APPLICAB? OR WEIGH? OR SCALE? OR RA- NK? OR EVALUAT? OR SCORE? OR SCORING OR EVALUAT?
S4	17656413	CLOSE? OR APPROACH? OR NEAR? OR WITHDRAW? OR RETREAT? OR A- DJACEN? OR TOWARD? OR AWAY?
S5	7220803	IMAGE? OR OBJECT? OR ELEMENT? OR REPRESENTATION?
S6	5999440	VISUALI? OR ONSCREEN? OR SCREEN? OR DISPLAY? OR MONITOR? OR LCD? OR CRT?
S7	13580890	SORT? OR ORDER? OR REORDER? OR ARRANG? OR REARRANG? OR CLA- SSIF? OR CATEGOR? OR CATALOG?
S8	57	S1(10N)S2(10N)S3(10N)S4(10N)S5(10N)S6(10N)S7
S9	24498	(S5 OR S6) (3N)S2(4N)S4
S10	480	S1(S)S9
S11	11618	DATA()VISUALI? OR DATAVISUAL?
S12	1	S10(S)S11
S13	4	S9(S)S11
S14	44	S10(S)S7
S15	19	S14(S)S3
S16	116207	(S1 OR S5) (2N)S2
S17	23	S8 AND S16
S18	46	S12 OR S13 OR S15 OR S15 OR S17
S19	37	RD (unique items)
S20	34	S8 NOT S18
S21	21	RD (unique items)
S22	14	S21 NOT PY>1999
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File	636:	Gale Group Newsletter DB(TM) 1987-2004/Nov 30 (c) 2004 The Gale Group
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File	370:	Science 1996-1999/Jul W3 (c) 1999 AAAS
File	696:	DIALOG Telecom. Newsletters 1995-2004/Nov 29 (c) 2004 The Dialog Corp.
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Set	Items	Description
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S3	10842	RELEVAN? OR IMPORT? OR APPLICAB? OR WEIGH? OR SCALE? OR RA- NK? OR EVALUAT? OR SCORE? OR SCORING OR EVALUAT?
S4	7248	CLOSE? OR APPROACH? OR NEAR? OR WITHDRAW? OR RETREAT? OR A- DJACEN? OR TOWARD? OR AWAY?
S5	11063	IMAGE? OR OBJECT? OR ELEMENT? OR REPRESENTATION?
S6	12277	VISUALI? OR ONSCREEN? OR SCREEN? OR DISPLAY? OR MONITOR? OR LCD? OR CRT?
S7	8384	SORT? OR ORDER? OR REORDER? OR ARRANG? OR REARRANG? OR CLA- SSIF? OR CATEGOR? OR CATALOG?
S8	57	S1 AND S2 AND S3 AND S4
S9	8	S8 AND S6
S10	11	S8 AND S7
S11	6	S8 AND S5
S12	23	S9 OR S10 OR S11
S13	23	S12 NOT PY>1999
S14	2	S13 NOT PD>19990119

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+mov* +and +(file? +or +folder? +or +document?) +and +(scre
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Terms used
mov and file? or folder? or document? and screen? or display? or monitor? or window? or terminal? and

relevance

- ☒ Save results to a Binder T
- ☒ Search Tips T
- ☐ Open results in a new window

Display results expanded form ▼

Result page: **1** 2

- 1 **Human-computer interface development: concepts and systems for its management**
H. Rex Hartson, Deborah Hix
March 1989 ACM Computing Surveys (CSUR), Volume 21 Issue 1
Full text available:  pdf(7.97 MB) Additional Information: full citation, abstract, references, citations
Human-computer interface management, from a computer science viewpoint, quality human-computer interfaces, including their representation, design, implementation, and maintenance. This survey presents important concepts of interface management: modeling, representation, interactive tools, rapid prototyping, development methods. *Dialogue independence* is the ...
- 2 **Office Information Systems and Computer Science**
Clarence A. Ellis, Gary J. Nutt
January 1980 ACM Computing Surveys (CSUR), Volume 12 Issue 1
Full text available:  pdf(2.87 MB) Additional Information: full citation, references, citations, index terms

3 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid

June 1999

ACM Computing Surveys (CSUR), Volume 31 Issue 2

Full text available:  pdf(233.31 KB)

Additional Information: full citation, abstract, references, c

Recent advances in wireless data networking and portable information applian computing, called mobile computing, in which users carrying portable devices services regardless of their physical location or movement behavior. In the m access in mobile environments has proliferated. In this survey, we provide a c the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, d mobile applications, mobile client/server, mobile compuing, mobile data, mobi

4 Groupware: some issues and experiences

Clarence A. Ellis, Simon J. Gibbs, Gail Rein

January 1991

Communications of the ACM, Volume 34 Issue 1


Full text available:  pdf(7.22 MB) Additional Information: full citation, references, citings, index terms

5 Personal distributed computing: the Alto and Ethernet software

Butler Lampson

January 1986

Proceedings of the ACM Conference on The history of personal v

Full text available:  pdf(3.00 MB)

Additional Information: full citation, abstract, references,


The personal distributed computing system based on the Alto and the Etherne help people to think and communicate. The paper describes the complex and c to pursue this goal, ranging from operating systems, programming environme printing and file servers, user interfaces, and applications such as editors, illus

6 Pen computing: a technology overview and a vision

André Meyer

July 1995

ACM SIGCHI Bulletin, Volume 27 Issue 3

Full text available:  pdf(5.14 MB)

Additional Information: full citation, abstract, citin


This work gives an overview of a new technology that is attracting growing int industry itself. The visible difference from other technologies is in the use of a interaction between a user and a machine, picking up the familiar pen and pag set of consequences that will be analyzed and put into context with other eme a short historic ...

7 Expanding jurisdictions and other facets of human-machine interface IT s

Charles N. Abernethy

September 1993

StandardView, Volume 1 Issue 1

Full text available:  pdf(1.73 MB)

Additional Information: full citation, references, index terms, review

8 Noncommand user interfaces

Jakob Nielsen

April 1993

Communications of the ACM, Volume 36 Issue 4

Full text available:  pdf(6.81 MB) Additional Information: full citation, references, citings, index terms

9 Screen reader/2: access to OS/2 and the graphical user interface

J. Thatcher

October 1994

Proceedings of the first annual ACM conference on Assistive tec

Full text available:  pdf(692.62 KB)

Additional Information: full citation, abstract, reference

Screen Reader/2 is IBM's access system for OS/2, providing blind users acces: Presentation Manager, to Windows programs running under OS/2, and to text Reader/2 is a completely redesigned and rewritten follow-on to IBM's Screen I considerable discussion about the technical challenges, difficulties, and inheren enough time and ene ...

10 The effects of information scent on visual search in the hyperbolic tree br

Peter Pirolli, Stuart K. Card, Mija M. Van Der Wege

March 2003

ACM Transactions on Computer-Human Interaction (TOCHI), Volu

Full text available:  pdf(2.37 MB)

Additional Information: full citation, abstract, referer


The Hyperbolic Tree is a focus + context information visualization that has bee navigate large tree-structured information systems. Information scent is a the interaction between task and display. Information scent is provided by task-re a tree that influence a user's visual search behavior and navigation decisions. was develope ...

Keywords: Hyperbolic Tree, Information visualization, fisheye-lens visual sear information scent, interactive computer graphics

11 Simplified applications for network computers

Don Gentner, Frank Ludolph, Chris Ryan

March 1997 Proceedings of the SIGCHI conference on Human factors in compu

Full text available:  pdf(1.49 MB)

Additional Information: full citation, references, in

Keywords: HotJava Views, Java, NC, Network Computer, Web, calendar, email simplicity

12 Unintended effects: varying icon spacing changes users' visual search sti

Sarah P. Everett, Michael D. Byrne

April 2004 Proceedings of the 2004 conference on Human factors in computing

Full text available:  pdf(675.36 KB)

Additional Information: full citation, abstract, refere

Users of modern GUIs routinely engage in visual searches for various control i this is so ubiquitous, it is important that the visual properties of user interface research is aimed at deepening our understanding of how the visual spacing b We constructed an experiment based on previous icon sets [8] where spacing manipulated, and for which we had a ...

Keywords: iconic displays, user and cognitive models, visual search

13 Textual bloopers: an excerpt from GUI bloopers

Jeff Johnson


September 2000 interactions, Volume 7 Issue 5

Full text available:  pdf(734.19 KB) Additional Information: full citation, index terms

**14 Section 06: objects in space: MessyDesk and MessyBoard: two designs i
memory**

Adam Fass, Jodi Forlizzi, Randy Pausch

June 2002 Proceedings of the conference on Designing interactive systems: proce

Full text available:  pdf(4.77 MB)


Additional Information: full citation, abstract, references

MessyDesk is a replacement desktop that invites free-form decoration. Messyl
board that is decorated collaboratively by a small group of users. We built thes
remember more of the content that they access through a computer. Our app
contexts. For instance, a computer with multiple projection screens could surr
correspond to projects t ...

Keywords: Info Cockpit, ambient displays, computer-supported, cooperative w
memory

**15 Physical spaces, virtual places and social worlds: a study of work in the v
Geraldine Fitzpatrick, Simon Kaplan, Tim Mansfield**

November 1996 Proceedings of the 1996 ACM conference on Computer supporte

Full text available:  pdf(1.33 MB)

Additional Information: full citation, references, citings, in

Keywords: CSCW, ethnography, grounded theory, social worlds, spatial metap

16 Where's the hypertext: The Dickens Web as a system-independent hyper

George P. Landow, Paul Kahn

December 1993 Proceedings of the ACM conference on Hypertext

Full text available:  pdf(1.31 MB)

Additional Information: full citation, references, citings, index terms

17 Squeeze me, hold me, tilt me! An exploration of manipulative user interfa

Beverly L. Harrison, Kenneth P. Fishkin, Anuj Gujar, Carlos Mochon, Roy Want

January 1998 Proceedings of the SIGCHI conference on Human factors in compu

Full text available:  pdf(1.13 MB)

Additional Information: full citation, references, citings, inde

Keywords: UI design, interaction technology, physical, tactile, and haptic UIs,

18 Supporting virtual team collaboration: the TeamSCOPE system

Charles Steinfield, Chyng-Yang Jang, Ben Pfaff

November 1999 Proceedings of the international ACM SIGGROUP conference on

Full text available:  pdf(1.73 MB)

Additional Information: full citation, abstract, references,

In this paper, we describe a collaborative system specifically designed to address (virtual) teams. TeamSCOPE (Team Software for a Collaborative Project Environment) that has emerged from a research project studying the communication needs of design teams. The paper begins by outlining some of the needs of virtual teams on facilitation of group membership ...

Keywords: CSCW, collaborative systems, distributed group, groupware, virtual

19 Moving mainframe VM users to a distributed UNIX system (KFUPM VM migration)

M. A. Abul-Hamayel, N. S. El-Halmoushi

November 1997 International Journal of Network Management, Volume 7 Issue 1

Full text available:  pdf(100.37 KB)

Additional Information: full citation, abstract, references,

Migration from one platform to another is a mammoth task. This article describes the experience of Petroleum and Minerals in moving from VM to UNIX, detailing the problems encountered and drawing practical conclusions that would facilitate such migration. Ltd.

20 User-interface design for a clinical neurophysiological intensive monitoring system

T. F. Collura, E. C. Jacobs, R. C. Burgess, G. H. Klem

March 1989 ACM SIGCHI Bulletin, Proceedings of the SIGCHI conference on Human factors in computing systems, Volume 20 Issue SI

Full text available:  pdf(536.53 KB)

Additional Information: full citation, abstract, references,

We describe the functional requirements and design reasoning leading to a user interface for a neurophysiological monitoring system. The design provides a versatile, high-performance interface that allows users have access to functions typically requiring dedicated training. The system includes signal processing, and graphical output, specifically tailored for the diagnosis and characterization of ...

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